ELSEVIER

Chemical Physics 227 (1998) 389–392

Chemical Physics

Author index to volume 227

Abe, S., see Murata, K. 227 (1998) 191
Aslangul, C., see Kraabel, B. 227 (1998) 83

Bässler, H., see Hertel, D. 227 (1998) 179
Beljonne, D., see dos Santos, D.A. 227 (1998) 1
Böhm, M.C., R. Ramírez and J. Schulte, Electrons and nuclei of C_6H_6 and C_6D_6; a combined Feynman path integral – ab initio approach 227 (1998) 271
Bradley, D.D.C., see Rohlfing, F. 227 (1998) 133
Brédas, J.L., see dos Santos, D.A. 227 (1998) 1
Brouwer, H.J., V.V. Krasnikov, T.A. Pham, R.E. Gill, P.F. van Hutten and G. Hadziioannou, Optical properties of single crystals and vacuum-deposited thin films of a substituted oligo(*p*-phenylene vinylene) 227 (1998) 65
Brütting, W., M. Meier, M. Herold, S. Karg and M. Schwoerer, Doping in PPV light-emitting devices fabricated on different substrates 227 (1998) 243
Bürger, H., see Helbig, M. 227 (1998) 111

Cocho, G., see Santamaria, R. 227 (1998) 317
Collison, C.J., see Samuel, I.D.W. 227 (1998) 75
Conwell, E.M., see Wu, M.W. 227 (1998) 11
Cornil, J., see dos Santos, D.A. 227 (1998) 1
Corona, L., see Santamaria, R. 227 (1998) 317

Dos Santos, D.A., D. Beljonne, J. Cornil and J.L. Brédas, Electronic structure of the lowest singlet and triplet excited states in cyano-substituted oligo(phenylene vinylene)s 227 (1998) 1
Dyakonov, V. and E. Frankevich, On the role played by polaron pairs in photophysical processes in semiconducting polymers 227 (1998) 203

Ehrenfreund, E., see Frolov, S.V. 227 (1998) 125

Fisher, A.J., see Paasch, G. 227 (1998) 219
Frank, A.J., see Lane, P.A. 227 (1998) 57
Frankevich, E., see Dyakonov, V. 227 (1998) 203
Frolov, S.V., X. Wei, W. Gellermann, Z.V. Vardeny and E. Ehrenfreund, Picosecond photoexcitation dynamics in poly(3-butyl-thiophene) films 227 (1998) 125

Garnier, F., Thin-film transistors based on organic conjugated semiconductors 227 (1998) 253
Garnier, F., see Marks, R.N. 227 (1998) 49
Gebauer, W., M. Sokolowski and E. Umbach, Optical processes in ultrathin oligothiophene films on well-defined substrates 227 (1998) 33

Geerts, Y., see Wohlgenannt, M. 227 (1998) 99
Gellermann, W., see Frolov, S.V. 227 (1998) 125
Gill, R.E., see Brouwer, H.J. 227 (1998) 65
González, E., see Santamaria, R. 227 (1998) 317
Graupner, M., see Wohlgenannt, M. 227 (1998) 99
Graupner, W., see Wohlgenannt, M. 227 (1998) 99

Hadziioannou, G., see Brouwer, H.J. 227 (1998) 65
Hein, J., see Helbig, M. 227 (1998) 111
Helbig, M., J. Hein, S. Rentsch, H. Bürger and H. Hobert, Time-resolved spectroscopic studies of laser induced processes on terthiophene in inorganic–organic hybrid polymer matrices 227 (1998) 111
Hennessy, M.H., see Soos, Z.G. 227 (1998) 19
Hermetter, A., see Wohlgenannt, M. 227 (1998) 99
Herold, M., see Brütting, W. 227 (1998) 243
Hertel, D., B. Schweitzer, H. Bässler, H. Tillmann and H.H. Hörhold, Relation between photoconduction and excimer formation in a conjugated oligomer 227 (1998) 179
Hobert, H., see Helbig, M. 227 (1998) 111
Hohlneicher, G., see Malsch, K. 227 (1998) 331
Holmes, A.B., see Samuel, I.D.W. 227 (1998) 75
Hopmeier, M., see Marks, R.N. 227 (1998) 49
Hopmeier, M., see Pfeffer, N. 227 (1998) 167
Hörhold, H.H., see Hertel, D. 227 (1998) 179
Horowitz, G., see Marks, R.N. 227 (1998) 49
Horvàth, A., see Weiser, G. 227 (1998) 153
Hu, B. and F.E. Karasz, Interfacial effects in polymer LEDs 227 (1998) 263
Hulin, D., see Kraabel, B. 227 (1998) 83

Karasz, F.E., see Hu, B. 227 (1998) 263
Karg, S., see Brütting, W. 227 (1998) 243
Karuth, V., see Malsch, K. 227 (1998) 331
Kraabel, B., D. Hulin, C. Aslangul, C. Lapersonne-Meyer and M. Schott, Triplet exciton generation, transport and relaxation in isolated polydiacetylene chains: subpicosecond pump-probe experiments 227 (1998) 83
Krasnikov, V.V., see Brouwer, H.J. 227 (1998) 65
Kulikov, S.V., see Skrebkov, O.V. 227 (1998) 349
Kuroda, S., see Murata, K. 227 (1998) 191

Lane, P.A., M. Liess, X. Wei, J. Partee, J. Shinar, A.J. Frank and Z.V. Vardeny, Effects of film order on the optical properties of α-sexithiophene 227 (1998) 57
Lapersonne-Meyer, C., see Kraabel, B. 227 (1998) 83
Leising, G., see Wohlgenannt, M. 227 (1998) 99
Liess, M., see Lane, P.A. 227 (1998) 57
List, E.J.W., see Wohlgenannt, M. 227 (1998) 99
Lunedi, E., see Marks, R.N. 227 (1998) 49

Mahrt, R., see Pfeffer, N. 227 (1998) 167
Mahrt, R.F., see Marks, R.N. 227 (1998) 49

Malsch, K., M. Roeb, V. Karuth and G. Hohlneicher, The importance of electron correlation for the ground state structure of porphycene and tetraoxaporphyrin-dication 227 (1998) 331
Marks, R.N., M. Muccini, E. Lunedi, R.H. Michel, M. Murgia, R. Zamboni, C. Taliani, G. Horowitz, F. Garnier, M. Hopmeier, M. Oestreich and R.F. Mahrt, Disorder influenced optical properties of α-sexithiophene single crystals and thin evaporated films 227 (1998) 49
Meier, M., see Brütting, W. 227 (1998) 243
Michel, R.H., see Marks, R.N. 227 (1998) 49
Morales, D.A., $1/\eta$ expansion for quasistationary states: complex energies and complex angular momenta 227 (1998) 301
Moratti, S.C., see Samuel, I.D.W. 227 (1998) 75
Muccini, M., see Marks, R.N. 227 (1998) 49
Müllen, K., see Wohlgenannt, M. 227 (1998) 99
Murata, K., Y. Shimoi, S. Abe, S. Kuroda, T. Noguchi and T. Ohnishi, Photogenerated polarons in poly(paraphenylene vinylene) 227 (1998) 191
Murgia, M., see Marks, R.N. 227 (1998) 49

Neher, D., see Pfeffer, N. 227 (1998) 167
Nguyen, P.H., see Paasch, G. 227 (1998) 219
Noguchi, T., see Murata, K. 227 (1998) 191

Oestreich, M., see Marks, R.N. 227 (1998) 49
Ohnishi, T., see Murata, K. 227 (1998) 191
Otsuka, K., see Takahashi, M. 227 (1998) 375

Paasch, G., P.H. Nguyen and A.J. Fisher, Potential dependence of polaron and bipolaron densities in conducting polymers: theoretical description beyond the Nernst equations 227 (1998) 219
Partee, J., see Lane, P.A. 227 (1998) 57
Pfeffer, N., D. Neher, M. Remmers, C. Poga, M. Hopmeier and R. Mahrt, Electric field-induced fluorescence quenching and transient fluorescence studies in poly(*p*-terphenylene vinylene) related polymers 227 (1998) 167
Pham, T.A., see Brouwer, H.J. 227 (1998) 65
Poga, C., see Pfeffer, N. 227 (1998) 167

Ramírez, R., see Böhm, M.C. 227 (1998) 271
Remmers, M., see Pfeffer, N. 227 (1998) 167
Rentsch, S., see Helbig, M. 227 (1998) 111
Roeb, M., see Malsch, K. 227 (1998) 331
Rohlfing, F. and D.D.C. Bradley, Non-linear Stark effect in polyazomethine and poly(*p*-phenylene-vinylene): The interconnection of chemical and electronic structure 227 (1998) 133
Rohr, U., see Wohlgenannt, M. 227 (1998) 99
Rumbles, G., see Samuel, I.D.W. 227 (1998) 75

Samuel, I.D.W., G. Rumbles, C.J. Collison, S.C. Moratti and A.B. Holmes, Intra- and inter-molecular photoexcitations in a cyano-substituted poly(*p*-phenylenevinylene) 227 (1998) 75
Santamaria, R., G. Cocho, L. Corona and E. González, Molecular electrostatic potentials and Mulliken charge populations of DNA mini-sequences 227 (1998) 317
Scherf, U., see Wohlgenannt, M. 227 (1998) 99
Schlichting, P., see Wohlgenannt, M. 227 (1998) 99

Schott, M., see Kraabel, B. 227 (1998) 83
Schulte, J., see Böhm, M.C. 227 (1998) 271
Schweitzer, B., see Hertel, D. 227 (1998) 179
Schwoerer, M., see Brütting, W. 227 (1998) 243
Shimoi, Y., see Murata, K. 227 (1998) 191
Shinar, J., see Lane, P.A. 227 (1998) 57
Skrebkov, O.V. and S.V. Kulikov, Effect of the vibrational nonequilibrium on the characteristics of a gas flow of a reacting $N_2O + CO + (H_2)$ mixtures 227 (1998) 349
Sokolowski, M., see Gebauer, W. 227 (1998) 33
Soos, Z.G., M.H. Hennessy and G. Wen, Frenkel and charge transfer states of conjugated polymers and molecules 227 (1998) 19

Takahashi, M., K. Otsuka and Y. Udagawa, Electron momentum spectroscopy study of furan 227 (1998) 375
Taliani, C., see Marks, R.N. 227 (1998) 49
Tasch, S., see Wohlgenannt, M. 227 (1998) 99
Tillmann, H., see Hertel, D. 227 (1998) 179

Udagawa, Y., see Takahashi, M. 227 (1998) 375
Umbach, E., see Gebauer, W. 227 (1998) 33

Van Hutten, P.F., see Brouwer, H.J. 227 (1998) 65
Vardeny, Z.V., see Frolov, S.V. 227 (1998) 125
Vardeny, Z.V., see Lane, P.A. 227 (1998) 57

Wei, X., see Frolov, S.V. 227 (1998) 125
Wei, X., see Lane, P.A. 227 (1998) 57
Weiser, G. and A. Horvàth, Variation with disorder of absorption and electroabsorption spectra of a π-conjugated polymer: 4BCMU 227 (1998) 153
Wen, G., see Soos, Z.G. 227 (1998) 19
Wenzl, F.P., see Wohlgenannt, M. 227 (1998) 99
Wohlgenannt, M., W. Graupner, F.P. Wenzl, S. Tasch, E.J.W. List, G. Leising, M. Graupner, A. Hermetter, U. Rohr, P. Schlichting, Y. Geerts, U. Scherf and K. Müllen, Photophysics of excitation energy transfer in highly fluorescent polymers 227 (1998) 99
Wu, M.W. and E.M. Conwell, Theory of photoinduced charge transfer in weakly coupled donor–acceptor conjugated polymers: application to an MEH-PPV:CN-PPV pair 227 (1998) 11

Zamboni, R., see Marks, R.N. 227 (1998) 49

ELSEVIER

Chemical Physics 227 (1998) 393–399

Chemical Physics

Subject index to volume 227

Methods and constructs

Theoretical

Computational methods for electronic structure

Electronic structure of the lowest singlet and triplet excited states in cyano-substituted oligo(phenylene vinylene)s, D.A. dos Santos, D. Beljonne, J. Cornil and J.L. Brédas 227 (1998) 1

Photogenerated polarons in poly(paraphenylene vinylene), K. Murata, Y. Shimoi, S. Abe, S. Kuroda, T. Noguchi and T. Ohnishi 227 (1998) 191

-CI and valence bond approach

Frenkel and charge transfer states of conjugated polymers and molecules, Z.G. Soos, M.H. Hennessy and G. Wen 227 (1998) 19

Spin states and magnetic interactions

On the role played by polaron pairs in photophysical processes in semiconducting polymers, V. Dyakonov and E. Frankevich 227 (1998) 203

Molecular response to external fields (incl. optical susceptibilities, dichroism, hyperpolarizabilities)

Theory of photoinduced charge transfer in weakly coupled donor–acceptor conjugated polymers: application to an MEH-PPV:CN-PPV pair, M.W. Wu and E.M. Conwell 227 (1998) 11

Non-linear Stark effect in polyazomethine and poly(*p*-phenylene-vinylene): The interconnection of chemical and electronic structure, F. Rohlfing and D.D.C. Bradley 227 (1998) 133

Radiative (incl. relativistic) effects on molecules and molecular processes

Photophysics of excitation energy transfer in highly fluorescent polymers, M. Wohlgenannt, W. Graupner, F.P. Wenzl, S. Tasch, E.J.W. List, G. Leising, M. Graupner, A. Hermetter, U. Rohr, P. Schlichting, Y. Geerts, U. Scherf and K. Müllen 227 (1998) 99

Migration and interaction on grids and lattices

Theory of photoinduced charge transfer in weakly coupled donor–acceptor conjugated polymers: application to an MEH-PPV:CN-PPV pair, M.W. Wu and E.M. Conwell 227 (1998) 11

Equilibrium statistical mechanics and thermodynamics

Potential dependence of polaron and bipolaron densities in conducting polymers: theoretical description beyond the Nernst equations, G. Paasch, P.H. Nguyen and A.J. Fisher 227 (1998) 219

Experiment

Magnetic resonances
Effects of film order on the optical properties of α-sexithiophene, P.A. Lane, M. Liess, X. Wei, J. Partee, J. Shinar, A.J. Frank and Z.V. Vardeny 227 (1998) 57
Photogenerated polarons in poly(paraphenylene vinylene), K. Murata, Y. Shimoi, S. Abe, S. Kuroda, T. Noguchi and T. Ohnishi 227 (1998) 191

-Molecular spectroscopy
Optical processes in ultrathin oligothiophene films on well-defined substrates, W. Gebauer, M. Sokolowski and E. Umbach 227 (1998) 33
Disorder influenced optical properties of α-sexithiophene single crystals and thin evaporated films, R.N. Marks, M. Muccini, E. Lunedi, R.H. Michel, M. Murgia, R. Zamboni, C. Taliani, G. Horowitz, F. Garnier, M. Hopmeier, M. Oestreich and R.F. Mahrt 227 (1998) 49
Picosecond photoexcitation dynamics in poly(3-butyl-thiophene) films, S.V. Frolov, X. Wei, W. Gellermann, Z.V. Vardeny and E. Ehrenfreund 227 (1998) 125
Non-linear Stark effect in polyazomethine and poly(*p*-phenylene-vinylene): The interconnection of chemical and electronic structure, F. Rohlfing and D.D.C. Bradley 227 (1998) 133

-UV
Photophysics of excitation energy transfer in highly fluorescent polymers, M. Wohlgenannt, W. Graupner, F.P. Wenzl, S. Tasch, E.J.W. List, G. Leising, M. Graupner, A. Hermetter, U. Rohr, P. Schlichting, Y. Geerts, U. Scherf and K. Müllen 227 (1998) 99

-visible
Optical processes in ultrathin oligothiophene films on well-defined substrates, W. Gebauer, M. Sokolowski and E. Umbach 227 (1998) 33
Photophysics of excitation energy transfer in highly fluorescent polymers, M. Wohlgenannt, W. Graupner, F.P. Wenzl, S. Tasch, E.J.W. List, G. Leising, M. Graupner, A. Hermetter, U. Rohr, P. Schlichting, Y. Geerts, U. Scherf and K. Müllen 227 (1998) 99
Variation with disorder of absorption and electroabsorption spectra of a π-conjugated polymer: 4BCMU, G. Weiser and A. Horvàth 227 (1998) 153
Electric field-induced fluorescence quenching and transient fluorescence studies in poly(*p*-terphenylene vinylene) related polymers, N. Pfeffer, D. Neher, M. Remmers, C. Poga, M. Hopmeier and R. Mahrt 227 (1998) 167
Relation between photoconduction and excimer formation in a conjugated oligomer, D. Hertel, B. Schweitzer, H. Bässler, H. Tillmann and H.H. Hörhold 227 (1998) 179

Measurement of macroscopic variables
Doping in PPV light-emitting devices fabricated on different substrates, W. Brütting, M. Meier, M. Herold, S. Karg and M. Schwoerer 227 (1998) 243

Photon counting and phase fluorimetry
Intra- and inter-molecular photoexcitations in a cyano-substituted poly(*p*-phenylenevinylene), I.D.W. Samuel, G. Rumbles, C.J. Collison, S.C. Moratti and A.B. Holmes 227 (1998) 75

Laser induced fluorescence
Optical properties of single crystals and vacuum-deposited thin films of a substituted oligo(*p*-phenylene vinylene), H.J. Brouwer, V.V. Krasnikov, T.A. Pham, R.E. Gill, P.F. van Hutten and G. Hadziioannou 227 (1998) 65

Ultrafast measurements
Triplet exciton generation, transport and relaxation in isolated polydiacetylene chains: subpicosecond pump-probe experiments, B. Kraabel, D. Hulin, C. Aslangul, C. Lapersonne-Meyer and M. Schott 227 (1998) 83
Time-resolved spectroscopic studies of laser induced processes on terthiophene in inorganic–organic hybrid polymer matrices, M. Helbig, J. Hein, S. Rentsch, H. Bürger and H. Hobert 227 (1998) 111

Nonlinear optics and spectroscopy
Non-linear Stark effect in polyazomethine and poly(*p*-phenylene-vinylene): The interconnection of chemical and electronic structure, F. Rohlfing and D.D.C. Bradley 227 (1998) 133
Variation with disorder of absorption and electroabsorption spectra of a π-conjugated polymer: 4BCMU, G. Weiser and A. Horvàth 227 (1998) 153

Optical pumping
Theory of photoinduced charge transfer in weakly coupled donor–acceptor conjugated polymers: application to an MEH-PPV:CN-PPV pair, M.W. Wu and E.M. Conwell 227 (1998) 11
Optical properties of single crystals and vacuum-deposited thin films of a substituted oligo(*p*-phenylene vinylene), H.J. Brouwer, V.V. Krasnikov, T.A. Pham, R.E. Gill, P.F. van Hutten and G. Hadziioannou 227 (1998) 65

Multiple resonance spectroscopy
On the role played by polaron pairs in photophysical processes in semiconducting polymers, V. Dyakonov and E. Frankevich 227 (1998) 203

Objects

Bulk systems

Liquid mixtures and solutions
Intra- and inter-molecular photoexcitations in a cyano-substituted poly(*p*-phenylenevinylene), I.D.W. Samuel, G. Rumbles, C.J. Collison, S.C. Moratti and A.B. Holmes 227 (1998) 75

Crystals
Frenkel and charge transfer states of conjugated polymers and molecules, Z.G. Soos, M.H. Hennessy and G. Wen 227 (1998) 19
Disorder influenced optical properties of α-sexithiophene single crystals and thin evaporated films, R.N. Marks, M. Muccini, E. Lunedi, R.H. Michel, M. Murgia, R. Zamboni, C. Taliani, G. Horowitz, F. Garnier, M. Hopmeier, M. Oestreich and R.F. Mahrt 227 (1998) 49

Glasses
Relation between photoconduction and excimer formation in a conjugated oligomer, D. Hertel, B. Schweitzer, H. Bässler, H. Tillmann and H.H. Hörhold 227 (1998) 179

Polymers
Theory of photoinduced charge transfer in weakly coupled donor–acceptor conjugated polymers: application to an MEH-PPV:CN-PPV pair, M.W. Wu and E.M. Conwell 227 (1998) 11
Frenkel and charge transfer states of conjugated polymers and molecules, Z.G. Soos, M.H. Hennessy and G. Wen 227 (1998) 19
Intra- and inter-molecular photoexcitations in a cyano-substituted poly(*p*-phenylenevinylene), I.D.W. Samuel, G. Rumbles, C.J. Collison, S.C. Moratti and A.B. Holmes 227 (1998) 75
Triplet exciton generation, transport and relaxation in isolated polydiacetylene chains: subpicosecond pump-probe experiments, B. Kraabel, D. Hulin, C. Aslangul, C. Lapersonne-Meyer and M. Schott 227 (1998) 83
Photophysics of excitation energy transfer in highly fluorescent polymers, M. Wohlgenannt, W. Graupner, F.P. Wenzl, S. Tasch, E.J.W. List, G. Leising, M. Graupner, A. Hermetter, U. Rohr, P. Schlichting, Y. Geerts, U. Scherf and K. Müllen 227 (1998) 99
Time-resolved spectroscopic studies of laser induced processes on terthiophene in inorganic–organic hybrid polymer matrices, M. Helbig, J. Hein, S. Rentsch, H. Bürger and H. Hobert 227 (1998) 111
Picosecond photoexcitation dynamics in poly(3-butyl-thiophene) films, S.V. Frolov, X. Wei, W. Gellermann, Z.V. Vardeny and E. Ehrenfreund 227 (1998) 125
Non-linear Stark effect in polyazomethine and poly(*p*-phenylene-vinylene): The interconnection of chemical and electronic structure, F. Rohlfing and D.D.C. Bradley 227 (1998) 133
Variation with disorder of absorption and electroabsorption spectra of a π-conjugated polymer: 4BCMU, G. Weiser and A. Horvàth 227 (1998) 153
Electric field-induced fluorescence quenching and transient fluorescence studies in poly(*p*-terphenylene vinylene) related polymers, N. Pfeffer, D. Neher, M. Remmers, C. Poga, M. Hopmeier and R. Mahrt 227 (1998) 167
Potential dependence of polaron and bipolaron densities in conducting polymers: theoretical description beyond the Nernst equations, G. Paasch, P.H. Nguyen and A.J. Fisher 227 (1998) 219
Doping in PPV light-emitting devices fabricated on different substrates, W. Brütting, M. Meier, M. Herold, S. Karg and M. Schwoerer 227 (1998) 243
Thin-film transistors based on organic conjugated semiconductors, F. Garnier 227 (1998) 253
Interfacial effects in polymer LEDs, B. Hu and F.E. Karasz 227 (1998) 263

Semiconductors
Thin-film transistors based on organic conjugated semiconductors, F. Garnier 227 (1998) 253

Thin films
Optical processes in ultrathin oligothiophene films on well-defined substrates, W. Gebauer, M. Sokolowski and E. Umbach 227 (1998) 33
Disorder influenced optical properties of α-sexithiophene single crystals and thin evaporated films, R.N. Marks, M. Muccini, E. Lunedi, R.H. Michel, M. Murgia, R. Zamboni, C. Taliani, G. Horowitz, F. Garnier, M. Hopmeier, M. Oestreich and R.F. Mahrt 227 (1998) 49
Optical properties of single crystals and vacuum-deposited thin films of a substituted oligo(*p*-phenylene vinylene), H.J. Brouwer, V.V. Krasnikov, T.A. Pham, R.E. Gill, P.F. van Hutten and G. Hadziioannou 227 (1998) 65
Picosecond photoexcitation dynamics in poly(3-butyl-thiophene) films, S.V. Frolov, X. Wei, W. Gellermann, Z.V. Vardeny and E. Ehrenfreund 227 (1998) 125
Non-linear Stark effect in polyazomethine and poly(*p*-phenylene-vinylene): The interconnection of chemical and electronic structure, F. Rohlfing and D.D.C. Bradley 227 (1998) 133

Electric field-induced fluorescence quenching and transient fluorescence studies in poly(*p*-terphenylene vinylene) related polymers, N. Pfeffer, D. Neher, M. Remmers, C. Poga, M. Hopmeier and R. Mahrt 227 (1998) 167
Doping in PPV light-emitting devices fabricated on different substrates, W. Brütting, M. Meier, M. Herold, S. Karg and M. Schwoerer 227 (1998) 243
Thin-film transistors based on organic conjugated semiconductors, F. Garnier 227 (1998) 253
Interfacial effects in polymer LEDs, B. Hu and F.E. Karasz 227 (1998) 263

Low-dimensional materials
Effects of film order on the optical properties of α-sexithiophene, P.A. Lane, M. Liess, X. Wei, J. Partee, J. Shinar, A.J. Frank and Z.V. Vardeny 227 (1998) 57
Triplet exciton generation, transport and relaxation in isolated polydiacetylene chains: subpicosecond pump-probe experiments, B. Kraabel, D. Hulin, C. Aslangul, C. Lapersonne-Meyer and M. Schott 227 (1998) 83
Photogenerated polarons in poly(paraphenylene vinylene), K. Murata, Y. Shimoi, S. Abe, S. Kuroda, T. Noguchi and T. Ohnishi 227 (1998) 191

Microscopic and mesoscopic systems

Molecules (neutral and ionic)
Electronic structure of the lowest singlet and triplet excited states in cyano-substituted oligo(phenylene vinylene)s, D.A. dos Santos, D. Beljonne, J. Cornil and J.L. Brédas 227 (1998) 1

-small polyatomics
Time-resolved spectroscopic studies of laser induced processes on terthiophene in inorganic–organic hybrid polymer matrices, M. Helbig, J. Hein, S. Rentsch, H. Bürger and H. Hobert 227 (1998) 111

-aromatics
Relation between photoconduction and excimer formation in a conjugated oligomer, D. Hertel, B. Schweitzer, H. Bässler, H. Tillmann and H.H. Hörhold 227 (1998) 179

-polymeric and biological
Variation with disorder of absorption and electroabsorption spectra of a π-conjugated polymer: 4BCMU, G. Weiser and A. Horvàth 227 (1998) 153
Photogenerated polarons in poly(paraphenylene vinylene), K. Murata, Y. Shimoi, S. Abe, S. Kuroda, T. Noguchi and T. Ohnishi 227 (1998) 191

Molecular aggregates
Intra- and inter-molecular photoexcitations in a cyano-substituted poly(*p*-phenylenevinylene), I.D.W. Samuel, G. Rumbles, C.J. Collison, S.C. Moratti and A.B. Holmes 227 (1998) 75

Quasiparticles (incl. excitons)
Triplet exciton generation, transport and relaxation in isolated polydiacetylene chains: subpicosecond pump-probe experiments, B. Kraabel, D. Hulin, C. Aslangul, C. Lapersonne-Meyer and M. Schott 227 (1998) 83
On the role played by polaron pairs in photophysical processes in semiconducting polymers, V. Dyakonov and E. Frankevich 227 (1998) 203

Phenomena

Electronic structure and states

Electronic structure of the lowest singlet and triplet excited states in cyano-substituted oligo(phenylene vinylene)s, D.A. dos Santos, D. Beljonne, J. Cornil and J.L. Brédas 227 (1998) 1

Frenkel and charge transfer states of conjugated polymers and molecules, Z.G. Soos, M.H. Hennessy and G. Wen 227 (1998) 19

Effects of film order on the optical properties of α-sexithiophene, P.A. Lane, M. Liess, X. Wei, J. Partee, J. Shinar, A.J. Frank and Z.V. Vardeny 227 (1998) 57

Triplet exciton generation, transport and relaxation in isolated polydiacetylene chains: subpicosecond pump-probe experiments, B. Kraabel, D. Hulin, C. Aslangul, C. Lapersonne-Meyer and M. Schott 227 (1998) 83

Non-linear Stark effect in polyazomethine and poly(*p*-phenylene-vinylene): The interconnection of chemical and electronic structure, F. Rohlfing and D.D.C. Bradley 227 (1998) 133

Electric field-induced fluorescence quenching and transient fluorescence studies in poly(*p*-terphenylene vinylene) related polymers, N. Pfeffer, D. Neher, M. Remmers, C. Poga, M. Hopmeier and R. Mahrt 227 (1998) 167

Photogenerated polarons in poly(paraphenylene vinylene), K. Murata, Y. Shimoi, S. Abe, S. Kuroda, T. Noguchi and T. Ohnishi 227 (1998) 191

Electric and magnetic properties

Relation between photoconduction and excimer formation in a conjugated oligomer, D. Hertel, B. Schweitzer, H. Bässler, H. Tillmann and H.H. Hörhold 227 (1998) 179

Doping in PPV light-emitting devices fabricated on different substrates, W. Brütting, M. Meier, M. Herold, S. Karg and M. Schwoerer 227 (1998) 243

Energy transfer processes

On the role played by polaron pairs in photophysical processes in semiconducting polymers, V. Dyakonov and E. Frankevich 227 (1998) 203

Molecular photophysical processes

Theory of photoinduced charge transfer in weakly coupled donor–acceptor conjugated polymers: application to an MEH-PPV:CN-PPV pair, M.W. Wu and E.M. Conwell 227 (1998) 11

Frenkel and charge transfer states of conjugated polymers and molecules, Z.G. Soos, M.H. Hennessy and G. Wen 227 (1998) 19

Optical processes in ultrathin oligothiophene films on well-defined substrates, W. Gebauer, M. Sokolowski and E. Umbach 227 (1998) 33

Disorder influenced optical properties of α-sexithiophene single crystals and thin evaporated films, R.N. Marks, M. Muccini, E. Lunedi, R.H. Michel, M. Murgia, R. Zamboni, C. Taliani, G. Horowitz, F. Garnier, M. Hopmeier, M. Oestreich and R.F. Mahrt 227 (1998) 49

Effects of film order on the optical properties of α-sexithiophene, P.A. Lane, M. Liess, X. Wei, J. Partee, J. Shinar, A.J. Frank and Z.V. Vardeny 227 (1998) 57

Optical properties of single crystals and vacuum-deposited thin films of a substituted oligo(*p*-phenylene vinylene), H.J. Brouwer, V.V. Krasnikov, T.A. Pham, R.E. Gill, P.F. van Hutten and G. Hadziioannou 227 (1998) 65

Triplet exciton generation, transport and relaxation in isolated polydiacetylene chains: subpicosecond pump-probe experiments, B. Kraabel, D. Hulin, C. Aslangul, C. Lapersonne-Meyer and M. Schott 227 (1998) 83
Time-resolved spectroscopic studies of laser induced processes on terthiophene in inorganic–organic hybrid polymer matrices, M. Helbig, J. Hein, S. Rentsch, H. Bürger and H. Hobert 227 (1998) 111
Interfacial effects in polymer LEDs, B. Hu and F.E. Karasz 227 (1998) 263

Luminescence spectra, yields and lifetimes
Optical processes in ultrathin oligothiophene films on well-defined substrates, W. Gebauer, M. Sokolowski and E. Umbach 227 (1998) 33
Intra- and inter-molecular photoexcitations in a cyano-substituted poly(*p*-phenylenevinylene), I.D.W. Samuel, G. Rumbles, C.J. Collison, S.C. Moratti and A.B. Holmes 227 (1998) 75
Photophysics of excitation energy transfer in highly fluorescent polymers, M. Wohlgenannt, W. Graupner, F.P. Wenzl, S. Tasch, E.J.W. List, G. Leising, M. Graupner, A. Hermetter, U. Rohr, P. Schlichting, Y. Geerts, U. Scherf and K. Müllen 227 (1998) 99
Electric field-induced fluorescence quenching and transient fluorescence studies in poly(*p*-terphenylene vinylene) related polymers, N. Pfeffer, D. Neher, M. Remmers, C. Poga, M. Hopmeier and R. Mahrt 227 (1998) 167
Relation between photoconduction and excimer formation in a conjugated oligomer, D. Hertel, B. Schweitzer, H. Bässler, H. Tillmann and H.H. Hörhold 227 (1998) 179
Interfacial effects in polymer LEDs, B. Hu and F.E. Karasz 227 (1998) 263

Coherence loss processes
Variation with disorder of absorption and electroabsorption spectra of a π-conjugated polymer: 4BCMU, G. Weiser and A. Horvàth 227 (1998) 153

Electron transfer
Theory of photoinduced charge transfer in weakly coupled donor–acceptor conjugated polymers: application to an MEH-PPV:CN-PPV pair, M.W. Wu and E.M. Conwell 227 (1998) 11
On the role played by polaron pairs in photophysical processes in semiconducting polymers, V. Dyakonov and E. Frankevich 227 (1998) 203